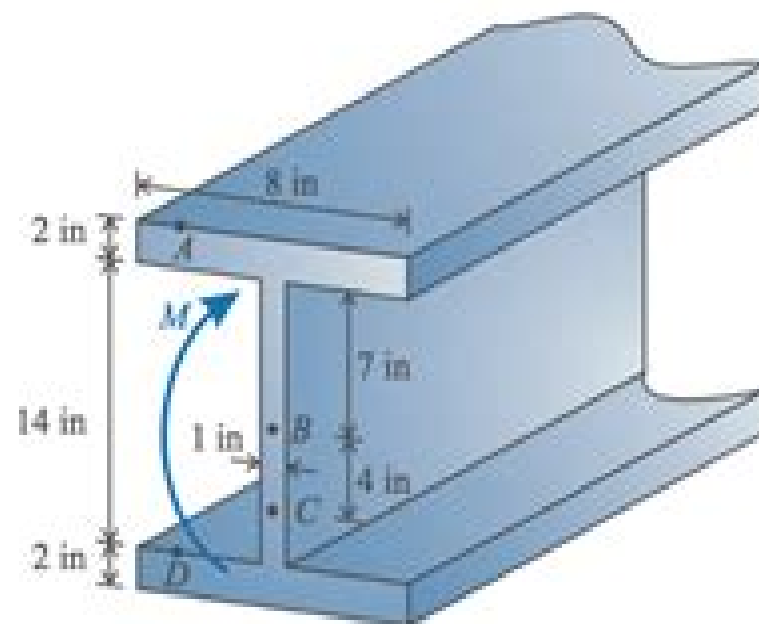


2. Bending of Wide-Flange Beam

Consider the wide-flange beam section shown in the figure below.



- Determine the percentage of the moment M that is resisted by the top and bottom flanges of the beam.
- Determine the direction (sign) and magnitude of the moment M that should be applied to the beam to cause a tensile stress of 22 ksi at point A . Draw the stress distribution acting on the cross section.
- Determine the maximum bending normal stress, σ_{max} and also the bending stress at points A , B , C , and D in the beam, if the moment M is equal to 20 kip·ft (Moment is applied as shown in figure).
- Determine the resultant force the bending stress on the top flange creates if the moment M is equal to 10 kip·ft (Moment is applied as shown in figure).

Wide Flange Steel Manual

**Roger Brockenbrough, Frederick
Merritt**



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Technical Manual United States. War Department, 1972 Technical Manual United States Department of the Army, 1965 The Engineering Handbook Richard C Dorf, 2018-10-03 First published in 1995 The Engineering Handbook quickly became the definitive engineering reference Although it remains a bestseller the many advances realized in traditional engineering fields along with the emergence and rapid growth of fields such as biomedical engineering computer engineering and nanotechnology mean that the time has come to bring this standard setting reference up to date New in the Second Edition 19 completely new chapters addressing important topics in bioinstrumentation control systems nanotechnology image and signal processing electronics environmental systems structural systems 131 chapters fully revised and updated Expanded lists of engineering associations and societies The Engineering Handbook Second Edition is designed to enlighten experts in areas outside their own specialties to refresh the knowledge of mature practitioners and to educate engineering novices Whether you work in industry government or academia this is simply the best most useful engineering reference you can have in your personal office or institutional library **Structural Steel Designer's Handbook** Roger Brockenbrough, Frederick Merritt, 1999-12-02 The only A Z guide to structural steel design Find a wealth of practical techniques for cost effectively designing steel structures from buildings to bridges in Structural Steel Designer s Handbook by Roger L Brockenbrough and Frederick S Merritt The Handbook s integrated approach gives you immediately useful information about steel as a material how it s fabricated and erected how to analyze a structure to determine internal forces and moments from dead live and seismic loads how to make detailed design calculations to withstand those forces This new third edition introduces you to the latest developments in seismic design including more ductile connections and high performance steels offers an expanded treatment of welding helps you understand design requirements for hollow structural sections and for cold formed steel members and explores numerous design examples You get examples for both Load and Resistance Factor Design LRFD and Allowable Stress Design ASD **Handbook of Structural Engineering** W.F. Chen, E.M. Lui, 2005-02-28 Continuing the best selling tradition of the Handbook of Structural Engineering this second edition is a comprehensive reference to the broad spectrum of structural engineering encapsulating the theoretical practical

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web 2 locate ducts against wall or maximum of 51 mm away from wall 3 each wall anchor shall satisfy the following criteria unless other analysis is made a tensile load $3.8 \times$ duct weight safety factor 4 b shear load $1.2 \times$ duct weight safety factor 4 figure 4.8m support from wall hvac duct construction standards metal and flexible

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